

Teaching Operating Systems: Student Assignments and the Software Engineering Perspective

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ABSTRACT

This paper is an experience report outlining a transformation of an operating systems course in a systems-oriented master study program. We present the initial and current stages of the transformation and summarize the lessons learned throughout the process. To illustrate the effects of the transformation, we provide feedback gathered from the students who have completed the course during the transformation. We put emphasis on general software engineering experience, which may prove useful in balancing the many issues related to most courses with programming assignments.

Categories and Subject Descriptors

K.3.2 [Computers and Education]: Computer and Information Science Education; D.4.0 [Operating Systems]: General

General Terms

Human Factors

Keywords

teaching, operating systems, student assignments

1. INTRODUCTION

A proverbial advice attributed to Confucius says: I hear, I forget. I see, I remember. I do, I understand. The concept of understanding through doing is very relevant to software engineering education, which relies heavily on student assignments to convey the understanding of technical details that are typically difficult to present in lectures.

Such an arrangement requires proper timing of the assignments relative to the lectures, determining the appropriate

depth of the assignments, and also involves significant effort spent on grading the assignments.

As far as assignments are concerned, software engineering education presents a particular challenge in that it often deals with issues only present in large projects. These issues are notoriously difficult to demonstrate in smaller assignments, which can lead to lectures acquiring the feel of beast fables – a lot of good advice is dealt out but never demonstrated in situations that the students experience first hand.

One solution to this issue is introducing specialized courses with large assignments, or requiring industrial internship, as a part of the study program. This approach, however, is limited by the size of the study program – an especially painful consideration in the two year master study programs frequently created off previous five year integrated study programs to comply with the Bologna Declaration [4].

We have therefore decided to put more emphasis on general software engineering issues even in specialized courses with programming assignments. This experience report describes such a change on the example of the operating systems course taught within Charles University.

The Charles University operating systems course has been designed to not only provide a wide overview of major system related concepts, such as process execution, process communication, memory management, memory virtualization and device handling, but to also foster sometimes less than perfect understanding of basic system related principles, such as the way in which machine code is executed by the processor or the way in which the processor communicates with devices.

We outline the course structure as it underwent a several years long transformation, adjusting various parameters of the assignments, and present the feedback gathered from the students during the transformation. The feedback concerns general software engineering experience and can help balance many issues related to the operating systems course in particular or similar courses with programming assignments in general.

In the following sections, we first outline the initial course structure, discuss our reasons for the transformation and detail its outcome. We proceed by outlining selected results of the several conducted student surveys. The summary of our own experience follows, with due conclusion.

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